Yr8 Term 2 Science

Unit	Summary	Skills	Assessment	British Values and SMSC	Career links	Cross-curricular links
Electricity	Explain how electricity is generated using fossil fuels Explain how electricity can be generated using renewable sources of energy Evaluate the use of renewable and non-renewable energy sources Complete simple calculation using: **energy transferred = potential difference x charge** Rearrange the equation: **energy transferred = potential difference x charge** Describing current and potential difference in series and parallel circuits	Interpreting data Describing trends Writing conclusions Rearrange equations Building circuits	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 2	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning interest in investigating, and offering reasoned views about, moral and ethical issues.	Electrician, lighting engineer, electrical engineer.	Maths, Design Technology, Art,
Biological Energy	Describe and explain Aerobic and Anaerobic respiration. Describe and explain Photosynthesis	Interpreting data Constructing graphs Drawing conclusions	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 2	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible	Doctor, Veterinarian, Nurse, epidemiologists, Virologists, pharmacist, biologists. Nutritionist	Maths, Technology, Food Tech

	Construct word and balanced symbol equations To recognise the structure of stomata, guard cells, phloem and xylem To state the function of, stomata, guard cells, phloem and xylem	Calculating: Mean Average, Range and Uncertainty.		use of imagination and creativity in their learning .		
Reactions	Describe and explain conservation of mass Classify reactions as: Exothermic Endothermic Thermal decomposition Combustion Write word and symbol equations	Plan methods Interpret data Draw conclusions Construct graphs Calculating: Mean Average, Range and Uncertainty.	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 2	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning	Engineer, Chemist, Pharmacist, Vet, Nurse, Doctor, Botanist. Material analyst	Maths, Design Technology, Art
Forces and Motion	Define the term resultant force To calculate simple resultant forces To describe properties of magnets To draw the magnetic field of a bar magnet Describe and explain static electricity	Simple calculations Method writing	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 2	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible use of imagination and creativity in their learning	Engineer, Chemist, Telecommunications, Mechanical engineer	Maths, Design Technology,
Reproduction	Describe the structure of DNA Define the terms Chromosomes and genes Explain the value of gene banks	Interpreting data	Low stakes marking opportunity. HW on SENECA Part of the End of Term Test 2	sense of enjoyment and fascination in learning about themselves, others and the world around them, including the intangible	Doctor, Veterinarian, Nurse, epidemiologists, Virologists, pharmacist, biologists. Nutritionist, Mid wife	Maths, STEM

	Describe and explain the menstrual cycle Link the menstrual cycle to fertility			use of imagination and creativity in their learning interest in investigating, and offering reasoned views about, moral and ethical issues.		